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## Patent Abstracts of Japan

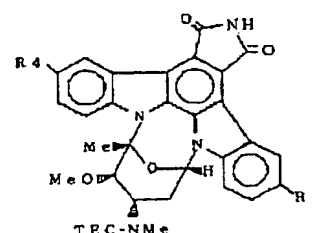
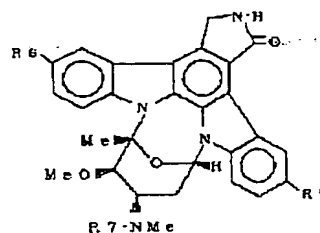
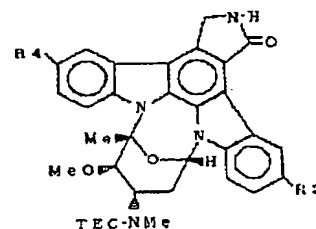
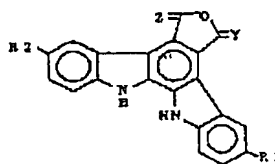
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APPLICANT : ASAHI CHEM IND CO LTD;

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TITLE : INDOLOCARBAZOLE DERIVATIVE  
 AND ANTITUMOR AGENT  
 COMPRISING THE SAME AS ACTIVE  
 INGREDIENT



ABSTRACT : PURPOSE: To obtain an antitumor agent having strongly antitumor action by using a new indolocarbazole derivative.

CONSTITUTION: An antitumor agent comprising a derivative of formula I (Y and Z are H or O and Y and Z are not H at the same time; R<sub>1</sub> and R<sub>2</sub> are H, formyl, nitro, OH, etc.) and its pharmaceutically acceptable salt as an active ingredient. For example, a compound wherein Y=O, Z=H<sub>2</sub>, R<sub>1</sub>=H and R<sub>2</sub>=HA in the compound of formula I. The compound of formula I, for example, is obtained by reacting a compound of formula II (R<sub>5</sub> and R<sub>6</sub> are H, formyl, etc.; R<sub>7</sub> is H or β,β,β-trichloroethoxy carbonyl) as a starting raw material with an excessive amount of a chlorine gas as a reagent at room temperature to give a compound of formula III (R<sub>2</sub> and R<sub>4</sub> are H or formyl), oxidizing the compound at the position to give an oxo derivative of formula IV, converting the derivative to an acid anhydride type compound and eliminating saccharide part.

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